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09/740,040	12/20/2000	James M. Zombek		
75	590 02/08/2006		EXAM	INER
Manelli Denison & Selter, PLLC			GOLD, AVI M	
Attn: William I	I. Bollman		<u></u>	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
05% - 4 4 - 0	09/740,040	ZOMBEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Avi Gold	2157				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a region of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from te. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. & 133)				
Status						
1) Responsive to communication(s) filed on 09 i	November 2005.					
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-61 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-61 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
D) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	-···	` '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

This action is responsive to the amendment filed on November 9, 2005. Claims 48-61 were added. Claims 1-61 are pending.

Response to Amendment

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10, 15, and 17-47 are rejected under 35 U.S.C. 102(b) as being anticipated by Gleeson et al., U.S. Patent No. 5,446,736.

Gleeson teaches the invention as claimed including an apparatus and methods for connecting nodes to wireless networks using standard network protocols.

Regarding claims 1, 48, and 55, Gleeson teaches a messaging system, messaging method, comprising:

a client device to store a client application to be executed by said client device (col. 6, lines 4-41, fig. 1, Gleeson discloses PCs communicating with the network switch);

a server to store a server application to be executed by said server (col. 6, lines 4-41, fig. 1, Gleeson discloses an enterprise network server);

a plurality of wireless networks to communicate messages between said client device and said server; and to support one or more wireless network protocols (col. 3, lines 30-36, col. 6, lines 4-41, fig. 1, Gleeson discloses wireless WANs used for the PCs to communicate with the server using any one of a number of conventional protocols);

a protocol gateway to encapsulate a fundamental network protocol, said fundamental network protocol to underline each of said one or more wireless network protocols and to include a protocol stack that corresponds substantially to an Open System Interconnection (OSI) model and incorporates a simple network transport layer (SNTL) (col. 6, lines 57-61, fig. 2, 5, 6, Gleeson discloses a protocol stack of layers used); and

a communicator to communicate a message between said client application and said server application over a selected wireless network protocol through said protocol gateway independent of said selected wireless network protocol (col. 7, lines 52-63, fig. 2, 5, 6, Gleeson discloses non-standard wireless network protocol layers being used).

Regarding claims 2, 49, and 56, Gleeson teaches the messaging system and method according to claims 1, 48, and 55, wherein:

said SNTL maps to layer 4 of said OSI model (fig. 5, 6).

Regarding claims 3, 50, and 57, Gleeson teaches the messaging system and method according to claims 1, 48, and 55, wherein said protocol stack further comprises:

an application layer mapped to layer 7 of said OSI model;
a network layer mapped to layer 3 of said OSI model;
a data link layer mapped to layer 2 of said OSI model; and
a physical layer mapped to layer 1 of said OSI model (fig. 5, 6).

Regarding claims 4, 41, and 58, Gleeson teaches the messaging system and method according to claims 3, 50, and 57, wherein:

said application layer comprises an interface between a client application and said SNTL; and

said client application is adapted to send and receive messages across said plurality of wireless networks without having any information of a communication implementation (col. 7, 8; fig. 5, 6).

Regarding claims 5, 52, and 59, Gleeson teaches the messaging system and method according to claims 4, 41, and 58, wherein:

said client application is selected from a group consisting of one or more e-mail applications, one or more file transfer applications, and a plurality of end user applications (col. 11, line 43 - col. 12, line 55, Gleeson discloses client software).

Regarding claims 6, 53, and 60, Gleeson teaches the messaging system and method according to claims 3, 50, and 57, wherein:

Art Unit: 2157

said network layer comprises means for providing network protocol layer functionality and hiding the details of said functionality from said SNTL (fig. 5, 6).

Regarding claims 7, 54, and 61, Gleeson teaches the messaging system and method according to claims 6, 53, and 60, wherein:

said network layer comprises an Internet Protocol (IP) (fig. 5, 6; col. 11, lines 44-58).

Regarding claim 8, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a public switch telephone network protocol (col. 10, lines 20-25, Gleeson discloses the use of various networks).

Regarding claim 9, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a cellular digital packet data protocol (col. 10, lines 20-25).

Regarding claim 10, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a Mobitex protocol (col. 10, lines 20-25).

Regarding claim 15, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are adapted to comply with said selected wireless network protocol (col. 10, lines 20-25).

Regarding claim 17, Gleeson teaches the messaging system according to claim 1, wherein:

said SNTL includes a connectionless UDP-like transport protocol having substantially all features and advantages of TCP (fig. 5, 6).

Regarding claim 18, Gleeson teaches the messaging system according to claim 17, wherein:

said features are selected from a group comprising message segmentation, message segment reassembly, message retries, and message duplication (fig. 12A – fig. 15).

Regarding claim 19, Gleeson teaches the messaging system according to claim 17, wherein:

Art Unit: 2157

said SNTL includes a transport header having a preselected width (fig. 12A – fig. 15).

Regarding claim 20, Gleeson teaches the messaging system according to claim 19, wherein:

said preselected width comprises between four to six bytes (fig. 12A - fig. 15).

Regarding claim 21, Gleeson teaches the messaging system according to claim 19, further comprising:

a single segment message header (fig. 12A - fig. 15).

Regarding claim 22, Gleeson teaches the messaging system according to claim 19, further comprising:

a multiple segment message header (fig. 12A - fig. 15).

Regarding claim 23, Gleeson teaches the messaging system according to claim 19, wherein said transport header further comprises:

a first field adapted to indicate a version number of a segment header (pg. 47, Gleeson discloses a ver field);

a second field adapted to indicate a message identification value, adapted to discard segment/message duplications and to match acknowledgments with messages; a third field adapted to indicate protocol information;

a fourth field adapted to indicate a total number of bytes contained in a message segment to be sent including said segment header; and

a fifth field adapted to indicate a number of each said message segment (fig. 12A – fig. 15).

Regarding claim 24, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises two bits (fig. 12A – fig. 15).

Regarding claim 25, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises bit 0 and bit 1 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 26, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises a value of from 0 to 3 (fig. 12A - fig. 15).

Regarding claim 27, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises thirteen bits (fig. 12A - fig. 15).

Art Unit: 2157

Regarding claim 28, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises bits 2 through 14 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 29, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises a value of from 0 to 8,192 (fig. 12A - fig. 15).

Regarding claim 30, Gleeson teaches the messaging system according to claim 23, wherein:

said third field comprises five bits (fig. 12A – fig. 15).

Regarding claim 31, Gleeson teaches the messaging system according to claim 23, wherein:

said third field comprises bits 15 through 19 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 32, Gleeson teaches the messaging system according to claim 23, wherein:

bit 19 of said third field comprises a value indicative of message segmentation (fig. 12A – fig. 15).

Regarding claim 33, Gleeson teaches the messaging system according to claim 32, wherein:

bit 19 comprises a value of 0 when said message is not segmented (fig. 12A – fig. 15).

Regarding claim 34, Gleeson teaches the messaging system according to claim 32, wherein:

bit 19 comprises a value of 1 when said message is segmented (fig. 12A – fig. 15).

Regarding claim 35, Gleeson teaches the messaging system according to claim 23, wherein:

bit 16 of said third field comprises a value indicative of a message type (fig. 12A – fig. 15).

Regarding claim 36, Gleeson teaches the messaging system according to claim 35, wherein:

bit 16 comprises a value of 0 when said message includes a positive acknowledgment (fig. 12A – fig. 15).

Art Unit: 2157

Regarding claim 37, Gleeson teaches the messaging system according to claim 35, wherein:

bit 16 comprises a value of 1 when said message includes a negative acknowledgment (fig. 12A – fig. 15).

Regarding claim 38, Gleeson teaches the messaging system according to claim 23, wherein:

bit 15 of said third field comprises a message indicator (fig. 12A - fig. 15).

Regarding claim 39, Gleeson teaches the messaging system according to claim 38, wherein:

bit 15 comprises a value of 0 when said message is an application message (fig. 12A – fig. 15).

Regarding claim 40, Gleeson teaches the messaging system according to claim 38, wherein:

bit 15 comprises a value of 1 when said message is a system message (fig. 12A – fig. 15).

Regarding claim 41, Gleeson teaches the messaging system according to claim 23, wherein:

said fourth field comprises twelve bits (fig. 12A - fig. 15).

Regarding claim 42, Gleeson teaches the messaging system according to claim 41, wherein:

said fourth field comprises bits 20 through 31 of a second word in said segment header (fig. 12A – fig. 15).

Regarding claim 43, Gleeson teaches the messaging system according to claim 42, wherein:

said fourth field comprises a value of from 4 to 4,096 (fig. 12A - fig. 15).

Regarding claim 44, Gleeson teaches the messaging system according to claim 23, wherein:

said fifth field comprises eight bits (fig. 12A – fig. 15).

Regarding claim 45, Gleeson teaches the messaging system according to claim 44, wherein:

said fifth field comprises bits 0 through 7 of a third word in said segment header (fig. 12A – fig. 15).

Regarding claim 46, Gleeson teaches the messaging system according to claim 44, wherein:

said fifth field comprises a value of from 2 to 255 (fig. 12A - fig. 15).

Regarding claim 47, Gleeson teaches the messaging system according to claim 23, wherein:

said fifth field is adapted to re-order a plurality of message segments into a single complete message (fig. 12A – fig. 15).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 11-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gleeson further in view of Meyer et al., U.S. Patent No. 6,778,099.

Gleeson teaches the invention substantially as claimed including an apparatus and methods for connecting nodes to wireless networks using standard network protocols.

As to claim 11, Gleeson teaches the method of claim 3.

Gleeson fails to teach the limitation further including wherein said data link layer and said physical layer are together adapted to comply with a RIM protocol.

Art Unit: 2157

However, Meyer teaches automatic equipment and systems for remote reading of utility meters via a wireless area network communications module (see abstract).

Meyer teaches the use of a RIM protocol (col. 6, lines 17-20).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Meyer to use a RIM protocol. One would be motivated to do so because it allows for the use of more protocols to transfer data.

As to claim 12, Gleeson teaches the method of claim 3.

Gleeson fails to teach the limitation further including wherein said data link layer and said physical layer are together adapted to comply with an ARDIS protocol.

However, Meyer teaches the use of an ARDIS protocol (col. 6, lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Meyer to use an ARDIS protocol.

As to claim 13, Gleeson teaches the method of claim 3.

Gleeson fails to teach the limitation further including wherein said data link layer and said physical layer are adapted to comply with a GPRS protocol.

However, Meyer teaches the use of other packet wireless data networks and packets transmitted and received over a radio modem (col. 6, lines 1-5, col. 7, lines 21-26).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Meyer to use a GPRS protocol.

As to claim 14, Gleeson teaches the method of claim 3.

Gleeson fails to teach the limitation further including wherein said data link layer and said physical layer are adapted to comply with a GSM protocol.

However, Meyer teaches the use of a GSM protocol (col. 6, lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Meyer to use a GSM protocol.

As to claim 16, Gleeson teaches the method of claim 3.

Gleeson fails to teach the limitation further including an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol.

However, Meyer teaches the use of an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol (col. 6, lines 1-5, 17-20; col. 7, lines 21-26).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Meyer to use an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol.

Response to Arguments

5. Applicant's arguments filed November 9, 2005 have been fully considered but they are not persuasive.

Application/Control Number: 09/740,040 Page 16

Art Unit: 2157

Regarding the argument to claims 1-10, 15, and 17-47, the applicant argues that the reference, Gleeson, does not disclose a plurality of wireless networks to communicate messages between a client device and a server. The examiner respectfully disagrees, as seen in, col. 3, lines 31-36, there is the use of wireless WANs for communications. In addition, the field of the invention of Gleeson mentions wireless networks. The applicant also argues that Gleeson does not disclose and teaches away from a protocol gateway based on column 3, lines 18-30; this section is taken from the background of the art and is not the section of Gleeson that was used in the previous non-final rejection to reject the limitation. The protocol gateway is shown in figures 2, 5, and 6 and in column 6, lines 57-61 as a protocol stack of layers that are used.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Pat. No. 6,304,564 to Monin et al.
 - U.S. Pat. No. 6,718,384 to Linzy
 - U.S. Pat. No. 6,628,965 to LaRosa et al.
 - U.S. Pat. No. 6,721,779 to Maffeis
 - U.S. Pat. No. 6,874,018 to Wu
 - U.S. Pat. No. 5,970,059 to Ahopelto et al.
 - U.S. Pat. No. 5,673,322 to Pepe et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Avi Gold whose telephone number is 571-272-4002. The examiner can normally be reached on M-F 8:00-5:30 (1st Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2157

Page 18

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Avi Gold

Patent Examiner

Art Unit 2157

AMG

BRHMARY EXAMINER